<u>PATENT</u>

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Sara Elo DEAN et al.)
Serial No.: 09/748,716)   Group Art Unit: 2173
Filed: December 22, 2000)
For: METHOD AND APPARATUS TO)   Examiner: Brian J. Detwiler
DYNAMICALLY CREATE A CUSTOMIZED)
USER INTERFACE BASED ON A)
DOCUMENT TYPE DEFINITION)
)

37 C.F.R. § 1.131 DECLARATION

We, the undersigned, are the Applicants for the above-identified patent application and hereby declare the following:

1)   Claims 1-9, 11-31, and 33-39 in the above-identified patent application were rejected under 35 U.S.C. §102(e) and claims 10 and 32 were rejected under 35 U.S.C. § 103(a) based on U.S. Patent Publication No. 2002/0085020 A1 to Carroll, Jr., entitled "XML-Based Graphical User Interface Application Development Toolkit" which filed on September 14, 2001 ("Carroll").

2)   The invention claims in the above-identified patent application were reduced to writing in the United States <u>prior to</u> the September 14, 2001 priority date of the Carroll reference. Attached hereto is the relevant portion of an Invention Disclosure on which the above-identified patent application was based. This Invention Disclosure was prepared <u>prior to</u> September 14, 2001.

We, the undersigned, hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both,

under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: Sara Elo DEAN   Signature: _Sara Gr Dean_   Date: _Sept 14 2004_

Name: Dikran S. MELIKSETIAN Signature: _____   Date: _____

Name: Louis WEITZMAN   Signature: _____   Date: _____

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POU920000205US1   Page 1 of 2   09/748,716

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Name: Sara Elo DEAN   Signature: _____   Date: _____

Name: Dikran S. MELIKSETIAN Signature: D.Mllikalm   Date: 10/26/2004

Name: Louis WEITZMAN   Signature: _____   Date: _____

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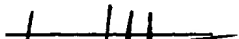
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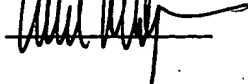
Name: Sara Elo DEAN Signature: _____ Date: _____

Name: Dikran S. MELIKSETIAN Signature: _____ Date: _____

Name: Louis WEITZMAN Signature: _____ Date: 8/16/04

Main Idea for Disclosure POU 8-2000-0101
Prepared for and/or by an IBM Attorney - IBM Confidential

Archived On

Title of disclosure (in English)
Algorithm for user interface construction based on DTDs

Main Idea

1. Describe your invention, stating the problem solved (if appropriate), and indicating the advantages of using the invention.
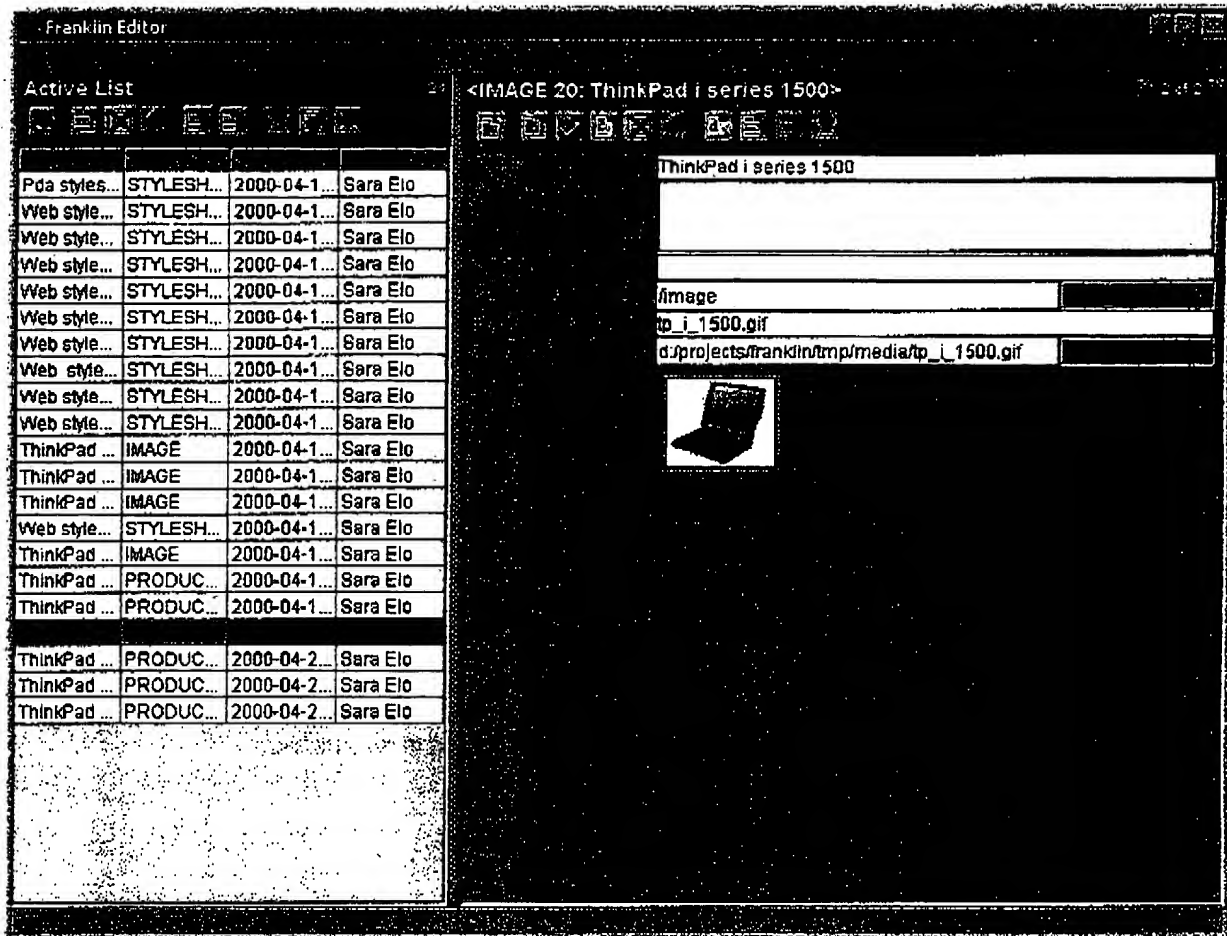This invention is a component used within the Franklin client . The Franklin system is a content management system based on XML. However, it shields the content contributor from the complexities and intricacies of the syntax of XML through the use of this invention. The invention creates a user interface that the content contributor can fill without any knowledge of the syntax of an XML document.

2. How does the invention solve the problem or achieve an advantage,(a description of "the invention", including figures inline as appropriate)?
The invention simplifies the creation of XML content by surfacing only UI widgets with which the editors interact. The UI widgets are based upon an industry standard document type definition (DTD) which describes the possible elements within a document. Additional attributes are added to an element of the document definition to indicate how the element should be surfaced in the interface.

Figure 1. Franklin client

3. If the same advantage or problem has been identified by others (inside/outside IBM), how have those others solved it and does your solution differ and why is it better?

XML is an emerging standard and other companies and people within IBM have been exploring similar ideas. This approach makes minimal modifications to the DTD itself. Others in the industry make major changes to the DTD or try to create full user interfaces based on an XML description, not the DTD.

4. If the invention is implemented in a product or prototype, include technical details, purpose, disclosure details to others and the date of that implementation.

This algorithm is used in the Franklin Java client. The process reads in the DTD and identifies elements that have attributes that indicate the type of UI to build. These include simple text entry elements, to large text areas, to choice boxes. This is also uses an extensible architecture to include new future UI types. The algorithm takes into account whether or not elements are required, occur more than once and are nested or not. No one outside of IBM has seen this client todate.